

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in this application:

LISTING OF CLAIMS:

1. (Currently Amended) A brush seal for sealing a rotor with respect to a stator, comprising:

bristles including free ends oriented toward a first one of the rotor and the stator; and

a bristle housing, the bristles fastened in the bristle housing, the bristle housing press-fit in an axial space between a fastening element and a second one of the rotor and the stator, the bristle housing press-fit on the second one of the rotor and the stator against movement in a radial direction relative to the second one of the rotor and the stator, the bristle housing including

a cover plate having an outer side surface arranged on a first axial side of the bristles and an axial section that extends axially from the outer side surface in an axial direction away from the bristles toward the first axial side to a free end disposed on the first axial side of the bristles,

a supporting plate having an inner side surface arranged on a second axial side of the bristles opposite the first axial side, and a circumferential section that extends from the inner side surface in the axial direction from the second axial side of the bristles to the first axial side of the bristles and axially beyond the free end of the cover plate to a flanged section, the flanged section spaced apart from the free end of the cover plate and projecting radially inwardly beyond the free end of the cover plate so as to form an undercut between the flanged section, the free end of the cover plate, and the outer side surface, the flanged section having a free end that does not directly contact the cover plate, the bristles being fastened in the bristle housing

between the inner side surface and the outer side surface;

an integral projection provided on the supporting plate; and

a recess provided on one of the rotor, the stator and the fastening element;

wherein the integral projection and the recess are configured to interact with each other in a positive-locking manner to maintain the press-fit against movement in

a radial direction and to provide definite positioning of the bristle housing so as to prevent relative rotation and reversed mounting of the entire bristle housing.

Claim 2. (Canceled).

3. (Original) The brush seal according to claim 1, wherein at least one of the cover plate and the supporting plate is formed by non-cutting shaping.

4. (Original) The brush seal according to claim 3, wherein the non-cutting shaping includes deep drawing.

5. (Original) The brush seal according to claim 1, wherein the bristle housing is formed by flanging the cover plate and the supporting plate.

Claims 6 and 7. (Canceled).

8. (Previously Presented) The brush seal according to claim 1, wherein the integral projection is formed during non-cutting shaping of the supporting plate.

9. (Previously Presented) The brush seal according to claim 1, wherein the integral projection is one of lenticular and conical.

Claims 10 and 11. (Canceled).

12. (Previously Presented) The brush seal according to claim 1, further including at least one pair of holes arranged in alignment in the second one of the stator and rotor, the axial section and the circumferential section, the at least one pair of holes being configured to receive a fastener.

13. (Original) The brush seal according to claim 12, wherein the fastener includes at least one of a rivet and a bolt.

14. (Original) The brush seal according to claim 1, wherein the bristles are arranged at an angle of 40° to 50° to a radial direction.

Claims 15 and 16. (Canceled).

17. (Currently Amended) A brush seal for sealing a rotor with respect to a stator, comprising:

bristles including free ends oriented toward a first one of the rotor and the stator; and

a bristle housing, the bristles fastened in the bristle housing, the bristle housing press-fit in an axial space between a fastening element and a second one of the rotor and the stator, the bristle housing press-fit on the second one of the rotor and the stator against movement in a radial direction relative to the second one of the rotor and the stator, the bristle housing including

a cover plate having an outer side surface arranged on a first axial side of the bristles and an axial section that extends axially from the outer side surface in an axial direction away from the bristles toward the first axial side to a free end disposed on the first axial side of the bristles,

a supporting plate having an inner side surface arranged on a second axial side of the bristles opposite the first axial side, and a circumferential section that extends from the inner side surface in the axial direction from the second axial side of the bristles to the first axial side of the bristles and axially beyond the free end of the cover plate to a flanged section, the flanged section spaced apart from the free end of the cover plate and projecting radially inwardly beyond the free end of the cover plate so as to form an undercut between the flanged section, the free end of the cover plate, and the outer side surface, the flanged section having a free end that does not directly contact the cover plate, the bristles being fastened in the bristle housing between the inner side surface and the outer side surface;

a weld spot projecting radially outwardly from the circumferential section; and a recess provided on the second one of the rotor and the stator;

wherein the weld spot and the recess are configured to interact with each other in a positive-locking manner to provide definite positioning of the bristle housing so as to prevent relative rotation and reversed mounting of the entire bristle housing.